Attorney Docket No.: 3556.224-US

PATENT

# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Uffe Loevborg

Confirmation No: 5207

**FAX RECEIVED** 

Serial No.: 09/056,343

Group Art Unit: 1652

OCT 3 1 2002

Filed: April 7, 1998

Examiner: W. Moore

GROUP 1600

For: Proteins with Changed Epitopes and Methods for the Production Thereof

# CERTIFICATE OF FACSIMILE TRANSMISSION

Commissioner for Patents Washington, DC 20231

LILOUME

Sir:

I hereby certify that the attached correspondence comprising:

- Amendment Fee Transmittal (in duplicate)
- 1. Amendment 2.

was sent to the United States Patent and Trademark Office by telefax to the attention of Examiner W. Moore, fax number (703) 308-4242.

Date: October 30, 2002

Lourdes Ayala

Novozymes North America, Inc. 500 Fifth Avenue, Suite 1600

New York, NY 10110

Respectfully submitted,

(212) 840-0097





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#### AMENDMENT FEE TRANSMITTAL

Commissioner for Patents Washington, DC 20231

Sir:

Transmitted herewith is an Amendment for the above-identified application in response to the Office Action mailed April 9, 2002.

The fee for claims has been calculated as shown below:

Total:  $39 - 29 = 10 \times 18 = $180$ 

Independent:  $5-4 = 1 \times 84 = $84$ 

Total additional fee for claims required is \$264.

Please charge the required claim fees, estimated to be \$264, to Novozymes North America, Inc., Deposit Account No. 50-1701. A duplicate of this sheet is enclosed.

Respectfully submitted,

Date: October 30, 2002

Elias J. Lambiris, Reg. No. 33,728 Novozymes North America, Inc. 500 Fifth Avenue, Suite 1600

New York, NY 10110

(212) 840-0097



# 23/2 DMT 11-1-02

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For: Proteins with Changed Epitopes and Methods for the Production Thereof

#### SUPPLEMENT AMENDMENT UNDER 37 C.F.R. 1.111

Commissioner for Patents Washington, DC 20231

Sir:

Further in response to the Office Action mailed April 9, 2002, please amend the above-identified application as follows:

#### IN THE CLAIMS:

Please cancel claims 67-76 without prejudice and disclaimer. Please add new claims 77-96:

- 77. A method for producing a DNA molecule encoding a variant of a reference protein having a known amino acid sequence, comprising
  - (a) production of one or more variants of the reference protein;
- (b) raising antibodies against the reference protein and the one or more variants thereof;
- (c) mapping one or more epitopes of the reference protein with immunological and proteochemical techniques by testing the antibodies towards the reference protein or the variants thereof; and
- (d) forming a DNA molecule encoding the amino acid sequence of a selected variant, which has an altered amino acid sequence of one or more epitopes of the reference protein, wherein the selected variant evokes a lower immunogenic response in an animal than the reference protein.

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